This listing of claims will replace all prior versions, and listings, of claims in the application:

Listing of Claims:

 (Currently Amended) A control system for controlling a hydronic system having both a heating source capable of heating water to be delivered over a piping line to a plurality of heat exchangers and a cooling source capable of cooling water to be delivered over the same piping line to the plurality of heat exchangers, said control system comprising:

a plurality of zone controllers, each zone controller connected to a respective heat exchanger so as to control the delivery of water over the piping line to the respective heat exchanger, each zone controller being operative to generate a demand for either signal corresponding to a request for one of heated water, cooled water or no water:

a hydronic temperature sensor disposed in the piping line and configured to generate a sensed water temperature; and

a hydronic system controller in communication with each of said zone controllers and operatively coupled to the hydronic temperature sensor, said hydronic system controller being operative to periodically receive the demand signal from each zone controller's controller demand signal for either heated water, cooled water or no water, said hydronic system controller being furthermore operative to periodically determine whether there is a predominance of the demand signals are requests for heating or cooling demands being received from said zone controllers, said hydronic system controller being still furthermore operative to normally and to activate, only if the sensed water temperature of the circulating water is within a predefined temperature range, either the heating source within the hydronic system when there is a when the predominance of heating demands received from said zone controllers of demand signals are for heating or activate the cooling source within the hydronic system when there is a when the predominance of demand signals are for cooling demands received from said zone controllers.

2. (Canceled).

- 3. (Currently Amended) The control system of claim 1 wherein the location of said temperature sensor is in the piping line includes a return water line piping which returns the water to the heating or cooling source to be activated section fluidly communicating from outlets of each heat exchanger to inlets of the heating source and cooling source, and in which the temperature sensor is disposed in the piping line return section.
- 4. (Currently Amended) The control system of claim 1 in which at least one of the heating source and cooling source is a currently active source while the other of the heating source and cooling source is a currently inactive source, in which the wherein said hydronic system controller is furthermore operative to deactivate the currently active heating source or the eurrently active cooling source in response to having received a predominance of demands from the zone controllers demand signals requesting that operation of the currently inactive eooling source, and in which the hydronic system controller is further be activated said hydronic system control being furthermore operative to activate the currently inactive heating or cooling source in the event that only after a predetermined period of time has clapsed.
- 5. (Currently Amended) The control system of claim 4 further comprising: a hydronic temperature sensor for sensing the temperature of the circulating water at a given location in the piping of the hydronic system disposed in the piping line, operatively coupled to the hydronic controller, and configured to generate a sensed water temperature; and wherein said hydronic system controller is <u>further</u> operative to activate the currently inactive heating or cooling source in the event that the sensed temperature of the circulating water is within a predefined temperature range before the predetermined period of time has clapsed if the sensed water temperature is within a predefined temperature range.
- 6. (Currently Amended) The control system of claim 5 wherein the location of said temperature sensor is in the piping line includes a return water line piping which returns the water to the inactive heating or cooling source to be activated section fluidly communicating from outlets of each heat exchanger to inlets of the heating source and cooling source, and in which the temperature sensor is disposed in the piping line return section.

7. (Currently Amended) The control system of claim 1, in which at least one of the heating source and cooling source is a currently active source while the other of the heating source and cooling source is a currently inactive source, and wherein said hydronic system controller is furthermore operative to only deactivate the currently active heating or the currently active cooling source in the event that if a predetermined run time has elapsed for the currently active heating or the currently active cooling.

8. (Currently Amended) The control system of claim 4 wherein said hydronic system controller is operative to periodically determine whether all zone controllers are demanding no conditioned water, said hydronic system controller being operative to thereafter maintain the active state of the currently active heating or cooling source in an active state and to furthermore transmit a message to the zone controllers indicating that the currently active heating or cooling source will continue to provide water over the pipe line to the heat exchangers controlled by the zone controllers.

9. (Currently Amended) The control system of claim 1 wherein said hydronic system controller is operative to send a message to each of the zone controllers indicating whether heated water or cooled water is to be provided to the heat exchangers and wherein each of said zone controllers is operative to control the delivery of water to the respective associated heat exchanger controlled by said zone controller depending on whether the zone controller's controller demand signal is corresponds to a request for heated water, cooled water or no water.

10-14. (Canceled).

- 15. (Currently Amended) A hydronic system for use in a space having multiple zones, the hydronic system comprising:
 - a heat exchanger disposed in at least three of the zones;
 - a heating source capable of heating water;
 - a cooling source capable of cooling water;
- a piping line fluidly communicating between both the heating source and the cooling source and each of the heat exchangers;
- a zone controller operatively coupled to each heat exchanger, each zone controller being operable to generate a demand signal in response to at least one sensed parameter in the zone associated with the zone controller, wherein the demand signal corresponds to a request for one of heated water, cooled water, or no water;
- a hydronic temperature sensor disposed in the piping line and configured to generate a sensed water temperature; and
- a hydronic system controller operatively coupled to each zone controller <u>and the hydronic</u> temperature sensor, the hydronic system controller being operative to:

periodically receive the demand signal from each zone controller,

- determine whether a predominance of the demand signals are requests for heating or cooling, and
- activate, only if the sensed water temperature is within a predefined temperature range, either the heating source when the predominance of the demand signals are for heating or the cooling source when the predominance of the demand signals are for cooling.
 - 16. (Canceled).
- 17. (Currently Amended) The hydronic system of claim 15, in which the piping line includes a return section <u>fluidly</u> communicating from outlets of each heat exchanger to inlets of the heating source and cooling source, and in which the temperature sensor is disposed in the piping line return section.

- 18. (Currently Amended) The hydronic system of claim 15, in which at least one of the heating source and cooling source is a currently active source while the other of the heating source and cooling source is a currently inactive source, in which the hydronic system controller is operative to deactivate the currently active source in response to a predominance of demands demand signals requesting operation of the currently inactive source, and in which the hydronic system controller is further operative to activate the currently inactive source only after a predetermined period of time has elapsed.
- 19. (Currently Amended) The hydronic system of claim 18, in which a hydronic temperature sensor is disposed in the piping line, operatively coupled to the hydronic controller, and configured to generate a sensed water temperature, and in which the hydronic controller is further operative to activate the currently inactive source before the predetermined period of time has classed if the sensed water temperature is within a predefined temperature range.
- 20. (Currently Amended) The hydronic system of claim 19, in which the piping line includes a return section <u>fluidly</u> communicating from outlets of each heat exchanger to inlets of the heating source and cooling source, and in which the temperature sensor is disposed in the piping line return section.
- 21. (Previously Presented) The hydronic system of claim 15, in which at least one of the heating source and cooling source is a currently active source while the other of the heating source and cooling source is a currently inactive source, and in which the hydronic system controller is operative to deactivate the currently active source if a predetermined run time has elapsed for the currently active source.
- 22. (Previously Presented) The hydronic system of claim 18, in which the hydronic system controller is operative to send a message to each of the zone controllers indicating whether heated water or cooled water is to be provided to the heat exchangers, and wherein each of the zone controllers is operative to control delivery of water to the associated heat exchanger depending on whether the zone controller demand signal corresponds to a request for heated water, cooled water, or no water.